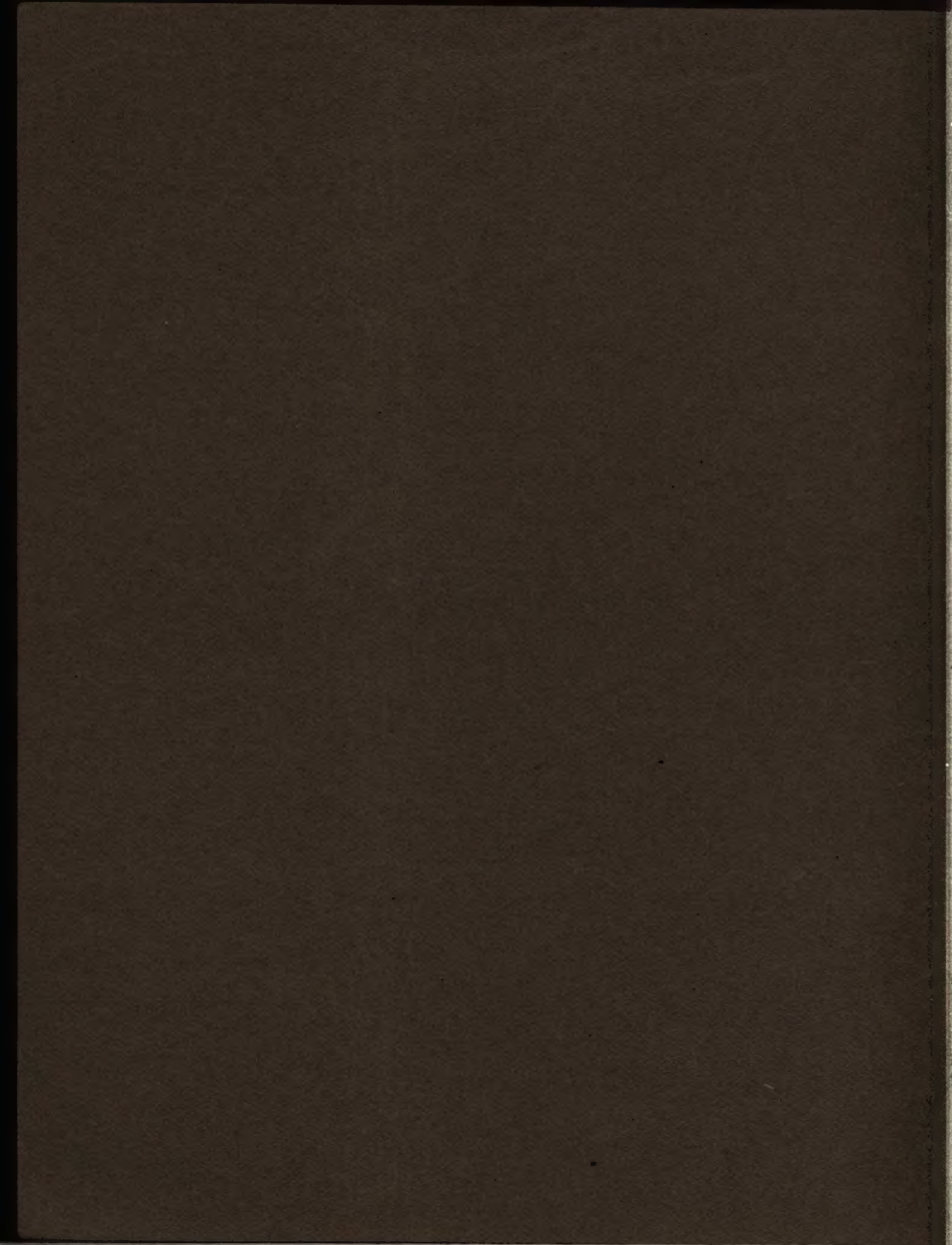


# Picture Lighting

Frank  
New York



Booklet No. 422

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# Frink Reflectors

... For ...

Lighting Pictures

Art Galleries

Decorated Ceilings

Cove Lighting

Stained Glass

Etc., Etc.

Protected by Patents Issued Sept. 29, 1903,

June 15, 1909, July 27, 1909

J. P. Frink, Inc.

24th Street and 10th Avenue, New York

Established 1857



**F**OR years we have made a careful study of the lighting of paintings, singly and in groups.

We have lighted thousands of pictures and most of the prominent galleries, both public and private. Our extended experience and thorough knowledge of the requirements in this particular field is an assurance of satisfactory results.

**Single Picture Lighting** gives us better opportunities for treatment and more perfect results are obtained. Each picture is treated according to its characteristic requirements; two pictures of the same size may require entirely different intensities and quality of light. Too high intensity will absorb delicate colors. The source of light must be properly located to avoid glare or blurred effect in canvas.

**Individual Reflectors** are provided with special patented brackets which allow adjustment in height, extension and angle of maximum intensity after being attached to back of picture frames. (See Fig. 1, page 5). This method of installation is preferable as it permits pictures being moved to other positions without leaving the walls or ceiling disfigured with screw holes.

**Size of Reflectors**, number of lamps, candle-power, etc., are governed by the dimensions of the picture. Reflectors should not be as long as the width of picture. The length depends to a considerable extent on how far the reflector extends from the picture and the extension in turn depends on the height of the picture.

Broadly speaking, the length of the reflector should be from one-half to two-thirds the width of the picture. If the reflector is as long as the picture is wide, considerable light is spread beyond the picture on the wall. Owing to the extension necessary in order to secure evenly diffused

light over the entire surface of the canvas, this should be avoided.

*See last page for standard reflector lengths and full size end views.*

**Extension of Reflectors.** (See Fig. 1, page 5.) The distance the reflector should extend from the picture (a) depends principally on the height or length of picture. The horizontal measurement is the width, the vertical measurement, height.

Canvas measurements, not including frame:

Height	Extension to Lamp Centers Approx.
12 inches.....	6 inches
24 inches.....	12 inches
36 inches.....	16 inches
48 inches.....	22 inches
60 inches.....	28 inches
72 inches.....	34 inches

Measurements are from canvas to lamp centre.

The extension is affected by the distance from the top of picture to floor, also by size of reflector and height of reflector above picture (b). This height is determined by the height of the picture from the floor.

If the picture hangs low, so the top is only slightly above the eye line, the reflector can be placed with the bottom the same height as the top of frame without any back reflection or glare; however, if the picture hangs high, it is necessary to raise the reflector some distance above the picture.

**Lamps.** As a rule carbon filament lamps will give best results. The candle power depends on size of pictures and color treatment.



**Finish.** Standard finish is gold bronze to match picture frames. Where desired we cover the reflectors with silk or plush to match wall covering.

**Recommendations.** When requesting information kindly give height and width of canvas, whether landscape or portrait, light or dark treatment. We will be glad to send a representative to obtain necessary data to enable our Engineering Department to make recommendation free of charge.

If desired we will send our expert, who has made a special study of this work to give advice and personal attention to the execution. For this service we make a reasonable charge, based on number of pictures and traveling expenses.

**Gallery Lighting.** Much trouble will be avoided by consulting us while the plans are being drawn, as the proper location of reflectors and wire outlet is very important.

The two main points to consider are to install the reflector high enough above the top of picture space to eliminate back reflection or glare from the highest picture, and out from the wall far enough to eliminate shadows from heavy frames on the lowest pictures. (See Fig. 2, page 5.)

We will be pleased to cooperate with your Architect or Engineer and guarantee satisfaction in all cases where our recommendations are followed.

See description on  
pages 2, 3 and 4

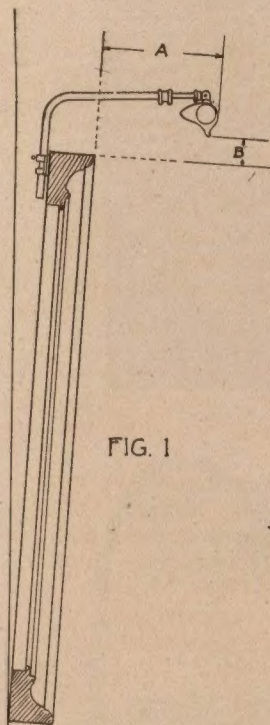


FIG. 1

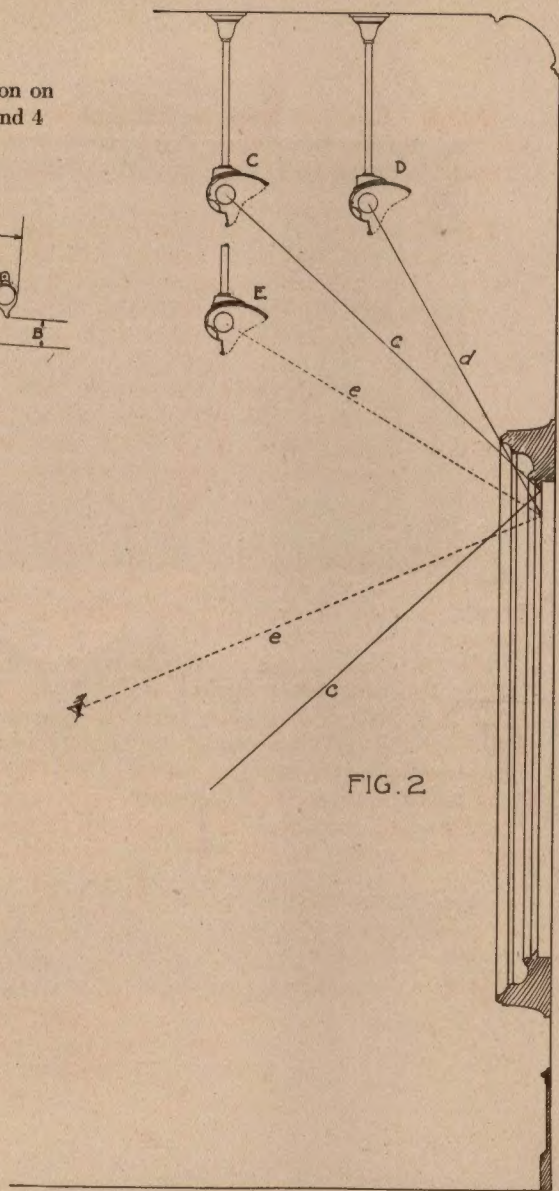


FIG. 2





Cut showing reflector installed on picture.

**HAND HAMMERED  
SCALLOP SHELL**

For attaching to back of  
picture frame.

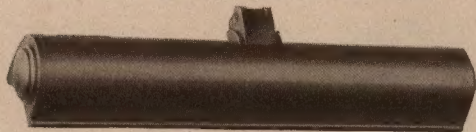


4	inch No. 700 List Price.....	\$46.00
5½	inch No. 701 List Price.....	50.00
7	inch No. 702 List Price.....	54.00

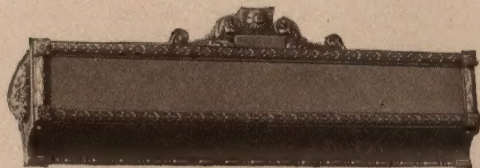


### Picture Reflectors

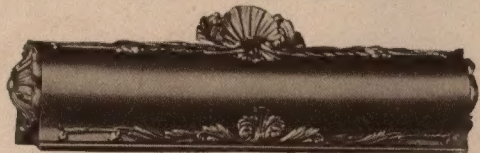
See page 1 for description, and page 21 for reflector lengths and full size end views.



No. 7053  
Made in sizes B-D-C and E.



No. 704  
Made in B sizes only.



No. 705  
Made in B sizes only.



No. 706  
Made in B sizes only.  
FOR PRICES SEE PAGE 16

## Special Reflectors



No. 707

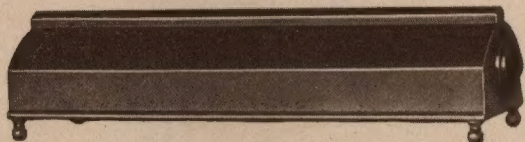
Made to rest on mantle or bookcase and light picture above.

For price see page 16.



No. 708

Made to light curio cases through glass top.



No. 709

Plain design for curio cases.

Prices on Nos. 708 and 709 will be given on receipt of information as to size of case and finish desired.



## Portable Stand Reflectors



Adjustable in height  
and angle of reflection.

Furnished with 20  
feet of silk cord, plug  
and lamp.

For lighting single pictures, tapestries, etc. Can be easily moved from one point to another. Adjustable as to height and angle of reflection. Very handy fixture. Can be placed in corner of room or in closet when not in use.

Brass No. 710

Black Iron No. 711

FOR PRICES SEE PAGE 16



DAY

## DAY—ILLUMINATION—NIGHT

Practically the same effect is obtained by Day or Night. The artificial light comes from the same direction as the daylight. There is no glare on the pictures when viewed from any position. The intensity in the central part of the room is 60 per cent. less than on the picture space, leaving the eye keen for detail and color values. The size of this room is 28 x 44 feet. The glass area of ceiling is only 560 square feet, less than half the ceiling area.

We believe this to be the best lighted gallery in the world.

SEND PRELIMINARY PLANS FOR  
RECOMMENDATIONS





NIGHT

## DESIGNED BY FRINK

After careful research, we have accumulated data regarding all available sheet glass, as to transmission, diffusion, color values, reflection, cleaning problems, etc.

We are prepared to furnish expert advice regarding design, glass area, and type of glass for skylights and glass ceilings of every description. Disagreeable shadows and structural visibility can be avoided; predetermined intensity and color tones insured. The next time you want advice about skylights and glass ceilings, ask us. We know what you need and how to secure satisfactory results.

OUR ENGINEERING DEPARTMENT IS AT YOUR  
SERVICE



Specially designed reflectors suspended from ceiling—the light is directed on the picture space. Lamps concealed from central portion of room. These reflectors are made both plain and ornamental in design. Size and exact position of reflectors depend on height of picture space, height of ceiling and distance of reflector from side wall.

We will be pleased to submit full information on receipt of details.





Private art gallery. Daylight and artificial illumination through glass ceiling panels. This treatment will give excellent results but care must be taken in selecting the glass, also in the design and installation of the lighting equipment.



Lighting through glass ceiling panels.







Indirect lighting from coves.



## Price List

TYPE	LIGHTS	LIST PRICE	TYPE	LIGHTS	LIST PRICE
7053	1	\$18.00	7053	1	\$16.80
B	2	24.80	D	2	21.40
	3	30.80		3	26.80
	4	37.40		4	33.40
	5	40.00		5	38.80
	6	45.00		6	42.50
7053	1	14.60	704	2	52.00
C & E	2	18.80		4	60.00
705	2	45.00	706	2	45.00
	4	72.00		4	72.00
707	2	66.00	710	1	76.00
BRASS ONLY	4	86.00	711	1	45.00

All the above reflectors with the exception of No. 707 are finished in mat gold to match the picture frames. This finish is applied with pneumatic spray and can be toned to match antique frames if desired.

For reflectors made entirely of brass add 80 per cent. to list price.

No. 707 is furnished with electroplated finish to match mahogany, or gun metal to match dark walnut, or with grained finish to match any kind of woodwork.

# Partial List of Galleries and Individuals Using Frink Reflectors

**A**  
AKRON, OHIO  
A. H. Marks  
E. C. Thaw  
ALBANY, N. Y.  
A. N. Brady  
Jas. Fenimore Cooper

**B**  
BAY CHESTER, N. Y.  
A. M. Huntington  
BERLIN, GERMANY  
Franz von Medelsohn  
Robt. Warschauer  
BEVERLY, MASS.  
Mrs. R. D. Evans  
J. O. Wardwell  
S. W. Winslow  
BEVERLEY FARMS, MASS.  
Chas. H. Tweed  
BOSTON, MASS.  
R. S. Agassiz  
Francis Bartlett  
Mrs. Robert M. Bradley  
Samuel Carr  
Robert E. Evans  
T. Jefferson Coolidge  
Geo. Folsom  
Roland C. Lincoln  
Nathaniel Thayer  
BRIDGEPORT, CONN.  
Dr. T. D. Warner  
BROADVILLE, N. Y.  
J. S. Pietsch  
BROOKLYN, N. Y.  
P. Ross Appleton  
J. W. Brown  
A. B. Chapman  
Mrs. E. T. Weil  
BUFFALO, N. Y.  
F. L. Pratt

**C**  
CHICAGO, ILL.  
Lawton S. Parker  
Mrs. Geo. W. Pullman  
CINCINNATI, OHIO  
M. M. Emery  
C. P. Taft  
CLEVELAND, OHIO  
A. A. Augustus  
James H. Hoyt

**D**  
DETROIT, MICH.  
Charles L. Freer  
Col. F. J. Hecker

**E**  
ELKINS PARK, PA.  
Joseph Widener

**F**  
FALL RIVER, MASS.  
C. H. Carr  
FARMINGTON, CONN.  
Alfred A. Pope  
FERNANDINA, FLA.  
Lucy C. Carnegie  
FRANKFORT, GERMANY  
Baron Rothschild

**G**  
GREENVILLE, CONN.  
P. A. Rockefeller  
GREENWICH, CONN.  
E. B. Close  
A. L. Fennesay  
Wm. Rockefeller

**H**  
HAVERHILL, MASS.  
A. D. Veasy  
HOBOKEN, N. J.  
A. LUDWIG

**K**  
KANSAS CITY, MO.  
Findlay Art Co.

**L**  
LAKEWOOD, N. J.  
Geo. J. Gould  
LOS ANGELES, CAL.  
H. E. Huntington  
LOUISVILLE, KY.  
E. Klauber

**M**  
MADISON, N. J.  
F. A. Bell  
MANCHESTER, MASS.  
W. de F. Kountze  
MENTON, OHIO  
Jas E. Newell



MINNEAPOLIS, MINN.  
 Beard Art & Stationery Co.  
 F. N. Peavey  
 MONTREAL, CANADA  
 H. Montague Allan  
 Jas. Crattem  
 Hon. G. A. Drummond  
 E. B. Greenshields  
 Thos. Robertson  
 W. Scott & Sons

N  
 NEWPORT, R. I.  
 J. D. Dickson  
 NEW ROCHELLE, N. Y.  
 Francis Wilson  
 NEW YORK, N. Y.  
 Thatcher N. Adams  
 W. R. Addicks  
 Mrs. Charles B. Alexander  
 A. A. Anderson  
 H. D. Auchincloss  
 H. D. Babcock  
 J. S. Bache  
 E. R. Bacon  
 Mrs. P. Baerwald  
 Gordon Bell  
 August Belmont  
 H. H. Benedict  
 Mrs. Abraham Bijou  
 C. K. G. Billings  
 J. A. Blair  
 Wm. H. Bliss  
 H. Blumenstetter  
 J. B. Breese  
 G. F. Brewster  
 S. S. Brown  
 W. L. Bull  
 Frederick A. Chapman  
 H. D. Cheever  
 Hugh J. Chisholm  
 Augustus W. Clark  
 Hon. W. A. Clark  
 Mrs. Ogden Codman  
 Wm. R. Coe  
 Columbia Graphophone Co.  
 L. H. Crall  
 John D. Crimmins  
 James Deering  
 Democratic Club  
 Mrs. E. L. Dieckerhoff  
 J. F. Donthilt  
 Otto Eidlitz  
 Jacob Eisner  
 John W. Ellis  
 J. J. Emery  
 M. Flagg  
 F. A. Forgee

Wm. Fox Circuit of Theatres  
 J. E. French  
 H. C. Frick  
 Arthur Friedlander  
 C. P. H. Gilbert  
 E. Gimpel & Wildenstein  
 Gordon Grant  
 H. J. Grant  
 Gen. F. V. Green  
 B. J. Greenhut  
 D. Guggenheim  
 I. Guggenheim  
 S. R. Guggenheim  
 A. B. Gwathmey  
 R. M. Haan  
 Robert Handy  
 Harry Harkness  
 August Heckscher  
 C. M. Higgins  
 Wm. Hodge  
 Colgate Hoyt  
 Theo. Huneman  
 Mrs. C. P. Huntington  
 H. J. Hurlock  
 Imperial Hotel  
 A. C. James  
 B. Keith  
 F. A. Kreckhoefer  
 Charles Lamer  
 J. H. Lancashire  
 Geo. Leary  
 Mrs. W. M. Leeds  
 J. Lewisohn  
 Mrs. Philip Lydig  
 MacDonald Galleries  
 James McLean  
 Marseilles Hotel  
 R. F. Maynard  
 D. O. Mills  
 F. P. Moore  
 Stephen Moore  
 Mrs. J. B. Morgan  
 Stanley Mortimer  
 Hon. Levi P. Morton  
 J. Pierpont Morgan  
 D. J. Murphy  
 F. Muschenheim  
 New York Athletic Club  
 W. L. Norrie  
 Old Harmony Club  
 Prof. H. F. Osborne  
 G. Fagenstecher  
 W. F. Paris  
 R. M. Parker  
 F. S. Parks  
 James Parmalle  
 E. R. Perkins  
 Henry Phipps

Mrs. Frank H. Platt  
 C. M. Pratt  
 J. T. Pratt  
 Ralph Pulitzer  
 Miss L. D. Putnam  
 W. A. Read  
 D. G. Reid  
 Hugo Reisinger  
 J. H. Rhodes  
 Frank Ritter  
 John D. Rockefeller  
 Wm. Rockefeller  
 St. Regis Hotel  
 H. L. Satterlee  
 Jacob Schiff  
 Geo. W. Schurman  
 L. L. Schuyler  
 Robert A. Scott  
 A. Seton  
 Seville Hotel  
 S. T. Shaw  
 F. H. R. Smith  
 Isaac Stern  
 Mrs. Anson Phelps Stokes  
 J. Strauss  
 Ernest Thalmann  
 Mrs. Benj. Thaw  
 W. N. Thayer  
 Hamilton Todd  
 Robert Todd  
 Burrough Torrey  
 Mrs. J. G. Trever  
 Simon Ulmann  
 W. H. Vander Poel  
 W. C. Van Slyke  
 S. Varney  
 E. C. Victor  
 Wm. M. Wadsworth  
 Paul M. Warburg  
 Warwick House  
 G. P. Whittaker  
 G. L. Winthrop  
 Robert Winthrop  
 Woodstock Hotel  
 Mrs. W. H. Wawkey

**O**  
 ORANGE, N. J.  
 E. F. Voelker

**P**  
 PARIS, FRANCE  
 Edward Brandus  
 Montaignac  
 PHILADELPHIA, PA.  
 Charles E. Bushnell  
 David H. Tarr  
 Chas. Howell  
 Robert M. Lindsay

PITTSBURGH, PA.  
 H. Du Puy  
 W. Mellon  
 Frank W. Ray  
 L. U. Winderly Bros.  
 PLAINFIELD, N. J.  
 A. H. Atterbury  
 W. P. Mellick  
 PORTLAND, ORE.  
 C. F. Adams  
 PRINCETON, N. J.  
 A. D. Russell

**II**  
 RICHMOND, VA.  
 Lewis Ginter  
 ROCHESTER, N. Y.  
 Geo. Eastman  
 Hiram W. Sibley  
 Warham Whitney  
 ROSLYN, N. Y.  
 Clarence H. Mackay (Estate of)

**S**  
 ST. LOUIS, MO.  
 Charles F. Bates  
 SAN FRANCISCO, CAL.  
 H. J. Breuer  
 Jacob Stern  
 SOUTHAMPTON, N. Y.  
 James C. Parich  
 SPRINGFIELD, MASS.  
 James A. Abbe

**T**  
 TRENTON, N. J.  
 Mrs. W. A. Roebeling  
 TUXEDO PARK, N. Y.  
 H. P. Loomis

**U**  
 UTICA, N. Y.  
 Fred T. Proctor

**W**  
 WASHINGTON, D. C.  
 Gallery Foreign Arts  
 R. H. Townsend  
 Otto S. Veerhoff  
 W. H. Veerhoff  
 WATERBURY, CONN.  
 Geo. L. White  
 WEBB CITY, MO.  
 E. T. Webb  
 WYOMING, OHIO  
 Wm. S. Stern

**Y**  
 YONKERS, N. Y.  
 Samuel Untermyer

## Private Galleries

### B

BOSTON, MASS.  
Doll & Richards  
BROOKLYN, N. Y.  
Crescent Athletic Club  
Prinz Bros.  
James Shevlin  
BUFFALO, N. Y.  
Geo. L. Williams

### C

CHELTON HILLS, PA.  
Hon. John Wanamaker  
CHICAGO, ILL.  
M. A. Ryerson  
CINCINNATI, OHIO  
Matthew Addy  
Gen. A. Goshorn  
CORNWELLS, PA.  
W. Seton Henry

### E

ELKINS PARK, PA.  
Joseph Widener

### G

GRAND RAPIDS, MICH.  
Mrs. E. J. Clark  
Ralph Tietzort

### M

MENAND, N. Y.  
Wm. H. Sage  
MONTCLAIR, N. J.  
Frank Taft

### N

NEW HAVEN, CONN.  
Hon. S. L. Bronson  
NEWPORT, R. I.  
Elbridge T. Gerry  
NEW YORK, N. Y.  
Acacia Club  
D. H. Anderson  
Edward Brancus  
Stephano Bourgeois Gallery  
Camera Club  
Andrew Carnegie  
Cottier & Co.  
Charles Daniel Gallery  
Davis & Sanford  
Dowdeswell & Dowdeswell  
Downtown Club  
E. Dreyfus  
Durand, Ruel & Co.

Duveen Bros.  
Ehrich Galleries  
James W. Ellsworth  
Fifth Avenue Auction Rooms  
Fishel, Adler & Schwartz  
Eugene Fishof & Co.  
P. W. French & Co.  
Freundschaft Society  
Elbridge T. Gerry  
E. Gimpel & Wildenstein  
Benj. Griffen  
Hess Galleries  
Holland Art Galleries  
J. D. Ichenhauser  
C. Klacknew  
F. Kleinberger Galleries  
M. Knoedler & Co.  
C. H. Kraushaar  
Lewis & Simmons Gallery  
Wm. MacBeth Gallery  
F. A. McIntyre  
The Edward Madison Co.  
E. F. Milliken  
Modern Galleries  
N. E. Montross  
R. C. Nickerson  
C. E. Proctor  
Salimagundie Club  
Joseph Satinover  
E. J. Schwabe  
Scott & Fowles Co.  
Mrs. Charles Senff  
W. & J. Sloane Gallery  
Mrs. Benjamin Thaw  
Arthur Tooth & Sons  
Union League Club  
H. O. Watson & Co.  
H. Wunderlich & Co.

### P

PARIS, FRANCE  
George Petit  
Chas. Sedelmyer  
PATERSON, N. J.  
C. Lambert  
PHILADELPHIA, PA.  
David H. Farr  
PITTSBURGH, PA.  
J. J. Gillespie & Co.

### R

ROCHESTER, N. Y.  
W. S. Kimball  
ROME, ITALY  
Prince Giovani del Drago



**S**

SAN FRANCISCO, CAL.  
M. H. De Young  
J. Stern

**T**

TORRESDALE, N. Y.  
Mrs. Robt. H. Foerderer

**A**

ALBANY, N. Y.  
Historical Society  
State Educational Building

**B**

BALTIMORE, MD.  
Maryland Institute  
Maryland Institutional School  
BOSTON, MASS.  
Public Library  
St. Botolph Club  
R. H. White & Co.  
BROOKLYN, N. Y.  
Brooklyn Ins. Arts & Sciences

**C**

CAMBRIDGE, MASS.  
Widener Memorial Library  
CHESTER, PA.  
Deshong Memorial Art Gallery  
CHICAGO, ILL.  
Art Institute

**D**

DETROIT, MICH.  
Detroit Art Museum

**E**

ERIE, PA.  
Public Library

**G**

GREENWICH, CONN.  
Bruce Memorial Museum

**H**

HOLYOKE, MASS.  
Skinner Memorial

**M**

MONTCLAIR, N. J.  
Montclair Art Museum  
MUSKEGON, MICH.  
Hackley Art Gallery

**N**

NEWARK, N. J.  
Newark Library

**W**

WASHINGTON, D. C.  
U. S. National Museum

WINNIPEG, CANADA  
Sir Wm. Whyte

# Public Galleries

NEW BRITAIN, CONN.  
New Britain Library  
NEW ROCHELLE, N. Y.  
New Rochelle Art Gallery  
NEW YORK, N. Y.  
American Art Galleries  
American Arts Association  
Arlington Art Gallery  
Detroit Photo Co.  
Fifth Avenue Art Gallery  
Higgins & Seiter  
Hispanic Library  
Metropolitan Museum of Art  
National Arts Club  
New York Public Library  
Administration Building  
New York Zoological Society  
Waldorf Art Galleries

**P**

PEPPENELL, MASS.  
Lawrence Library  
PHILADELPHIA, PA.  
Drexel Institute  
PITTSBURGH, PA.  
Carnegie Library  
PITTSFIELD, MASS.  
Crane Museum  
PORTLAND, ME.  
Sweet Memorial Building  
PROVIDENCE, R. I.  
Rhode Island School of Design

**S**

SEATTLE, WASH.  
Alaska-Pacific Yukon Exposition  
SYRACUSE, N. Y.  
Museum of Fine Arts

**T**

TRENTON, N. J.  
Trenton School of Fine Arts  
TROY, N. Y.  
Hart Memorial Library  
TULSA, OKLA.  
Carnegie Library

**U**  
**URBANA, ILL.**  
 University of Illinois

**W**  
**WASHINGTON, D. C.**  
 Corcoran Gallery of Art  
 Smithsonian Institute

## Concealed Lighting

**A**  
**ABERDEEN, N. D.**  
 Page Memorial Building  
**AKRON, OHIO**  
 F. A. Sieberling  
**AUGUSTA, ME.**  
 A. W. Whitney  
**B**  
**BATH, ME.**  
 J. S. Hyde  
**BROOKLYN, N. Y.**  
 Hall of Records  
 G. D. Pratt  
**C**  
**CAMBRIDGE, MASS.**  
 Widener Memorial Library  
**CAMBRIDGE, N. Y.**  
 Edwin McClellan  
**CHICAGO, ILL.**  
 G. A. Soden  
**CLEVELAND, OHIO**  
 W. H. Kirns  
 Shaker Lakes Country Club

**D**  
**DETROIT, MICH.**  
 Penobscot Music Room  
 George House

**E**  
**EDMONTA, CANADA**  
 University of Alberta

**F**  
**FALL RIVER, MASS.**  
 E. P. Charlton

**G**  
**GREENWICH, CONN.**  
 E. C. Converse

**H**  
**HOLYOKE, MASS.**  
 Skinner Memorial  
**HYDE PARK, N. Y.**  
 Archibald Rogers

**K**  
**KANSAS CITY, KAN.**  
 W. S. Dickey

**M**  
**MONTCLAIR, N. J.**  
 Montclair Art Museum  
**MORRISTOWN, N. J.**  
 Theodore N. Vail

**N**  
**NEWARK, N. J.**  
 Essex County Court House  
**NEW HAVEN, CONN.**  
 G. F. Brewster  
**NEW ROCHELLE, N. Y.**  
 New Rochelle Art Gallery  
**NEW YORK, N. Y.**  
 Wm. Barbour  
 E. D. Baylis  
 Belmont Hotel  
 George Blumenthal  
 Howard C. Brokaw  
 W. Gould Brokaw  
 James Burden  
 James A. Burden, Jr.  
 Cathedral St. John the Divine  
 Chamber of Commerce  
 Chemical National Bank  
 Church of Holy Cross  
 City College  
 Wm. P. Clyde  
 Geo. Carleton Comstock  
 J. F. Donahue  
 James A. Deering  
 Democratic Club  
 Stuart Duncan  
 Engineering Association  
 Henry C. Frick  
 C. W. Haight  
 Hall of Records  
 E. S. Harkness  
 Mrs. E. H. Harriman  
 F. C. Havemeyer  
 Hispanic Library  
 Hotel Woodstock  
 A. C. James  
 Warner M. Leeds  
 Mrs. Chas. E. F. McCann  
 F. A. McIntyre  
 Masonic Temple  
 Metropolitan Museum of Art  
 New Amsterdam Theatre  
 New York Edison Co.

Mrs. W. C. Osborne  
 Pabst Harlem Casino  
 H. T. Parsons  
 Plaza Hotel  
 Ritz-Carlton Hotel  
 Julian W. Robbins  
 Archibald Rogers  
 Elwood Rue  
 St. Gabriel's Church  
 Chas. M. Schwab  
 Second Church of Christ Scientist  
 Sherry's Building  
 Thos. E. Stillman  
 Robert M. Thompson  
 Union League Club  
 Union Theological Seminary  
 U. S. Custom House  
 Waldorf-Astoria  
 H. Payne Whitney  
 C. J. Wittenberg  
 E. T. Wittenberg  
 F. W. Woolworth

# P

PEKING, CHINA  
 Tsing Hua College Library  
 PHILADELPHIA, PA.  
 Majestic Hotel  
 Masonic Temple  
 PITTSBURGH, PA.  
 Carnegie Institute  
 Soldiers Memorial Building  
 PORTLAND, ME.  
 Sweet Memorial Building  
 POUGHKEEPSIE, N. Y.  
 Adriaance Memorial Library  
 PRINCETON, N. J.  
 Biological Laboratory

# II

RIVERDALE-ON-HUDSON, N. Y.  
 Geo. W. Perkins

ROSEMONT, PA.  
 J. W. Converse  
 ROSLYN, N. Y.  
 H. P. Whitney

# S

ST. LOUIS, MO.  
 Dunker Resident  
 SALEM, ORE.  
 Supreme Court and Library  
 Building  
 SCARBORO, N. Y.  
 F. A. Vanderlip (Library)  
 SHREWSBURY, MASS.  
 M. J. Whittall  
 SOUTHAMPTON, N. Y.  
 James Breese  
 SPRINGFIELD, MASS.  
 Elks House

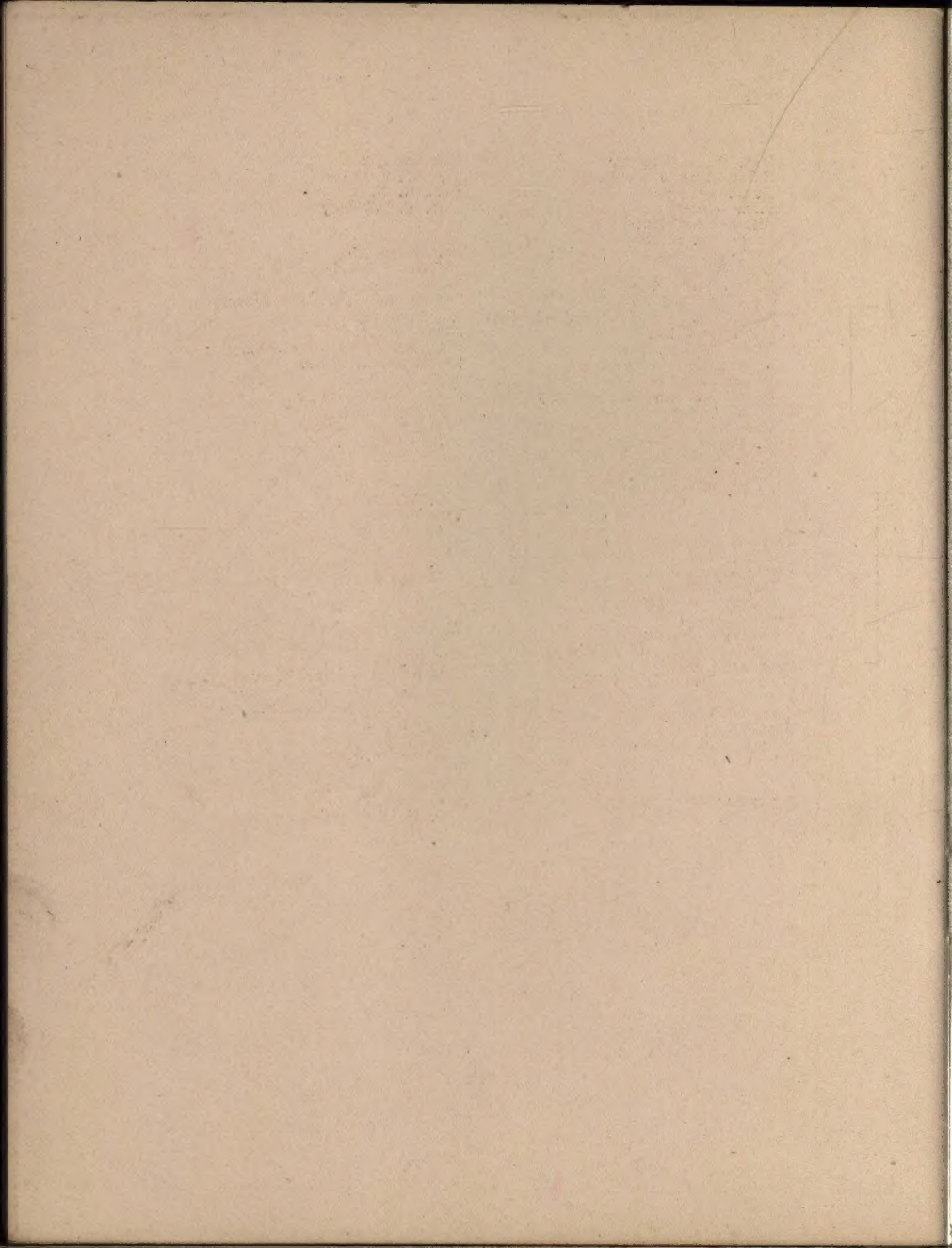
# T

TARRYTOWN, N. Y.  
 C. W. Halle  
 TOLEDO, OHIO  
 Toledo Club  
 TORONTO, CANADA  
 C. V. Beatty  
 Sir H. M. Pellatt

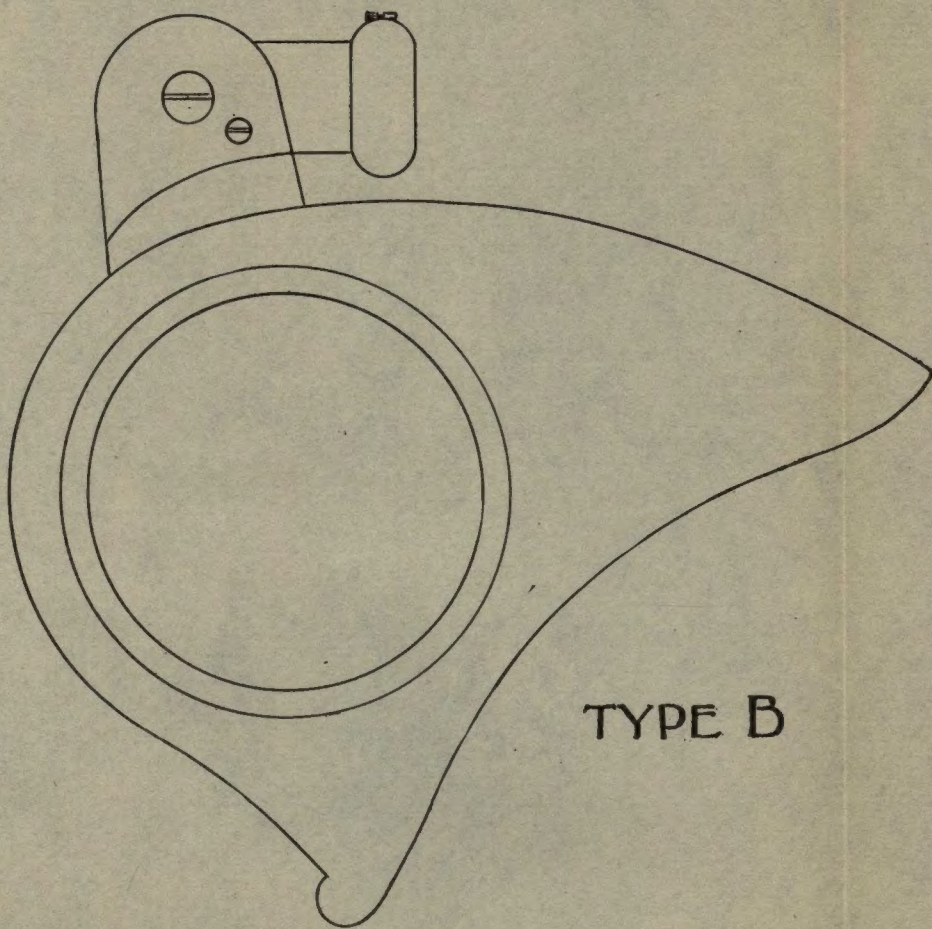
# W

WASHINGTON, D. C.  
 Wm. T. Cambridge  
 T. T. Gaff  
 Memorial to the Women of the  
 Civil War  
 New Metropolitan Club  
 Union Station  
 WINNIPEG, CANADA  
 Ft. Gary Station  
 WORCESTER, MASS.  
 H. W. Goddard  
 WYNCOTE, PA.  
 C. H. K. Curtis

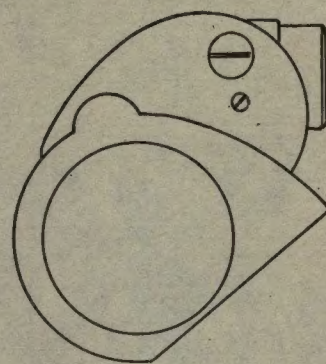




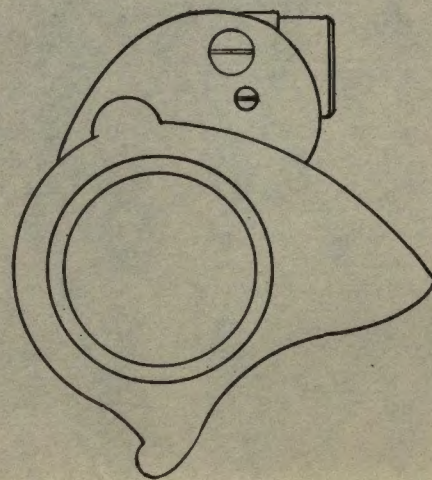




TYPE B



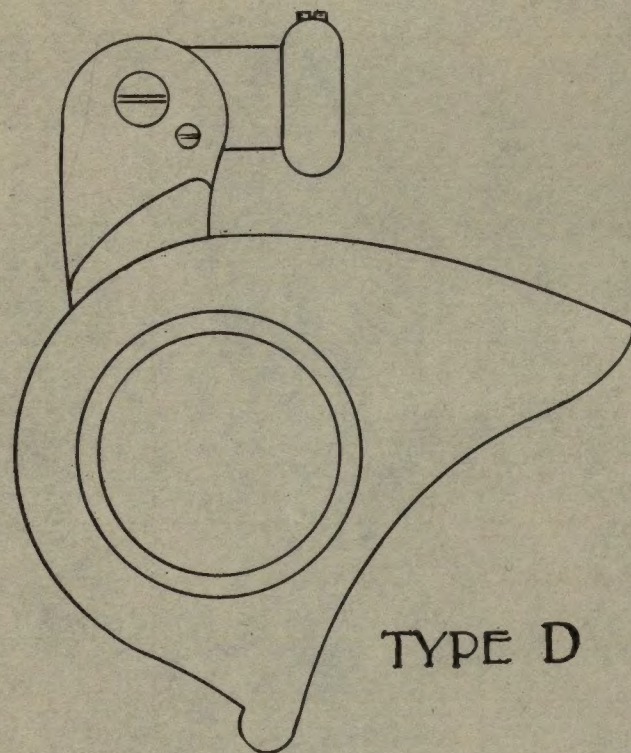
TYPE E



TYPE C

I. P. FRINK INC.  
NEW YORK

REFLECTOR TYPE	LENGTH	Nº OF LAMPS	TYPE OF LAMPS	Nº OF BRACKETS	CENTRE SPACING OF BRACKETS
B	10"	1	T. 10	1	IN CENTRE
"	14"	2	"	1	"
"	24"	3	"	1	"
"	30"	4	"	2	18"
"	38"	5	"	2	24"
"	45"	6	"	2	30"
D	8"	1	"	1	IN CENTRE
"	14"	2	"	1	"
"	24"	3	"	1	"
"	30"	4	"	2	18"
"	38"	5	"	2	24"
"	45"	6	"	2	30"
C	7 1/4"	1	CANDELABRA T-6 or T-8	1	IN CENTRE
"	12"	2	"	1	"
E	6"	1	CANDELABRA T-6	1	"
"	10"	2	"	1	"



TYPE D

DRAWINGS SHOW FULL SIZE  
END VIEW OF REFLECTORS



